

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Name of Applicant and Assignee: SUN MICROSYSTEMS, INC.
Address of Applicant and Assignee: 4150 Network Circle
Santa Clara, CA 95054

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

**REVOCATION AND SUBSTITUTION
OF POWER OF ATTORNEY UNDER 37 C.F.R. §1.36**

Dear Sir:

Pursuant to 37 C.F.R. §1.36, Sun Microsystems, Inc., the applicant and assignee of the patent applications listed on the attached APPENDIX A, revokes all previous powers of attorney in the patent applications listed on the attached APPENDIX A, hereby appoints the following attorneys and/or agents assigned to the Customer Number listed below to prosecute the patent applications listed on the attached APPENDIX A, and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Customer Number 32615

Please direct all correspondence and telephone calls concerning the patent applications listed on the attached APPENDIX A to:

Robert P. Lord
OSHA • LIANG LLP
909 Fannin Street, Suite 3500
Houston, Texas 77010
Telephone No.: (713) 228-8600
Facsimile No.: (713) 228-8778

Further, please change the attorney/docket number corresponding to the patent applications listed in APPENDIX A from the attorney/docket number on file to that indicated on APPENDIX A.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the above-identified applicant.

The undersigned hereby declares that all statements made herein of the undersigned's own knowledge are true, that all statements made on information and belief are believed to be true, and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the patent applications listed on the attached APPENDIX A or any patents issuing thereon.

Signature:

John Ketchum
John Ketchum

Dated:

1/26/09

Name:

Title:

Assistant General Counsel

Sun Microsystems, Inc.

APPENDIX A

1. **Patent Application/Serial No.:** 11/277,762
Title: MICROPROCESSOR ARCHITECTURE
WITH RECONFIGURABLE
FUNCTION UNITS
Filed: 3/29/2006
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 021731/0700
Reference No: 33227/220001; SUN080708-US-NP
2. **Patent Application/Serial No.:** 11/351,058
Patent No.: 7,412,570
Title: SMALL AND POWER-EFFICIENT
CACHE THAT CAN PROVIDE DATA
FOR BACKGROUND DMA DEVICES
WHILE THE PROCESSOR IS IN A
LOW-POWER STATE
Filed: 2/9/2006
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 017518/0156 (Inventors to Montalvo)
021171/0578 (Montalvo to Sun)
Reference No: 33227/221001; SUN080674

3. **Patent Application/Serial No.:** 11/559,069
- Title:** SMALL AND POWER-EFFICIENT
CACHE THAT CAN PROVIDE DATA
FOR BACKGROUND DMA DEVICES
WHILE THE PROCESSOR IS IN A
LOW-POWER STATE
- Filed:** 11/13/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/221002; SUN080674-US-CNT-1
4. **Patent Application/Serial No.:** 60/731,968
- Title:** ENHANCED RF DECODER SAVES
POWER DURING UNNECESSARY
READS
- Filed:** 10/31/2005
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/223000; SUN080662-US-PSP
5. **Patent Application/Serial No.:** 11/306,000
- Title:** SOFTWARE HINT TO SPECIFY THE
PREFERRED BRANCH PREDICTION
TO USE FOR A BRANCH
INSTRUCTION
- Filed:** 12/16/2005
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 017518/0137
- Reference No:** 33227/224001; SUN080653

6. **Patent Application/Serial No.:** 11/279,880
- Title:** IMPROVED PREFETCH HARDWARE
EFFICIENCY VIA PREFETCH HINT
INSTRUCTIONS
- Filed:** 4/15/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 018161/0754
- Reference No:** 33227/226001; SUN080665
7. **Patent Application/Serial No.:** 11/277,765
- Title:** THREAD MIGRATION AND
RECONFIGURATION OF A MULTI-
CORE PROCESSOR
- Filed:** 3/29/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021731/0700
- Reference No:** 33227/227001; SUN080651-US-NP-5
8. **Patent Application/Serial No.:** 11/645,901
- Title:** PREDICTION OF DATA VALUES
READ FROM MEMORY BY A
MICROPROCESSOR USING A
DYNAMIC CONFIDENCE
THRESHOLD
- Filed:** 12/26/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/229001; SUN080843

9. **Patent Application/Serial No.:** 11/645,917
- Title:** LOW-POWER PREDICTION OF DATA VALUES READ FROM MEMORY BY A MICROPROCESSOR
- Filed:** 12/26/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/230001; SUN080824
10. **Patent Application/Serial No.:** 11/645,935
- Title:** PREDICTION OF DATA VALUES READ FROM MEMORY BY A MICROPROCESSOR USING SELECTIVE TABLE ENTRY REPLACEMENT
- Filed:** 12/26/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/231001; SUN080823
11. **Patent Application/Serial No.:** 11/561,287
- Title:** EXECUTING FUNCTIONS DETERMINED VIA A COLLECTION OF OPERATIONS FROM TRANSLATED INSTRUCTIONS
- Filed:** 11/17/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021731/0700
- Reference No:** 33227/235001; SUN080680

12. **Patent Application/Serial No.:** 11/646,008
- Title:** PREDICTION OF DATA VALUES
READ FROM MEMORY BY A
MICROPROCESSOR USING THE
STORAGE DESTINATION OF A
LOAD OPERATION
- Filed:** 12/26/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/236001; SUN080825
13. **Patent Application/Serial No.:** 11/561,281
- Title:** FUSING REGISTER OPERATIONS OF
A TARGET ARCHITECTURE
OPERATION SET
- Filed:** 11/17/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021731/0700
- Reference No:** 33227/237001; SUN080680
14. **Patent Application/Serial No.:** 60/707,070
- Title:** ADAPTIVE COMPUTING ENSEMBLE
MICROPROCESSOR ARCHITECTURE
- Filed:** 8/10/2005
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/254001; SUN080651

15. **Patent Application/Serial No.:** 60/751,398
Title: ADAPTIVE COMPUTING ENSEMBLE
MICROPROCESSOR ARCHITECTURE
Filed: 12/17/2005
Applicant: Sun Microsystems, Inc.
Reference No: 33227/255001; SUN080707
16. **Patent Application/Serial No.:** 60/758,485
Title: MICROPROCESSOR ARCHITECTURE
WITH RECONFIGURABLE
FUNCTION UNITS
Filed: 1/10/2006
Applicant: Sun Microsystems, Inc.
Reference No: 33227/256001; SUN080690
17. **Patent Application/Serial No.:** 60/759,484
Title: ADAPTIVE COMPUTING ENSEMBLE
MICROPROCESSOR ARCHITECTURE
Filed: 1/17/2006
Applicant: Sun Microsystems, Inc.
Reference No: 33227/257001; SUN080708

- 18. Patent Application/Serial No.:** 60/777,015
Title: ADAPTIVE COMPUTING ENSEMBLE MICROPROCESSOR ARCHITECTURE
Filed: 2/25/2006
Applicant: Sun Microsystems, Inc.
Reference No: 33227/258001; SUN080709
- 19. Patent Application/Serial No.:** 11/277,761
Title: ADAPTIVE COMPUTING ENSEMBLE MICROPROCESSOR ARCHITECTURE
Filed: 3/29/2006
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 021731/0700
Reference No: 33227/259001; SUN080707
- 20. Patent Application/Serial No.:** 11/781,726
Title: VIRTUAL CORE MANAGEMENT
Filed: 7/23/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/259002; SUN080835-US-CIP1

21. **Patent Application/Serial No.:** 60/832,823
- Title:** MANAGING MULTIPLE PHYSICAL
CORE PROCESSORS TO BEHAVE AS
ONE VIRTUAL CORE PROCESSOR
- Filed:** 7/23/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/259003; SUN080835
22. **Patent Application/Serial No.:** 11/277,763
- Title:** STATICALLY CONFIGURED
MICROPROCESSOR ARCHITECTURE
- Filed:** 3/29/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021731/0700
- Reference No:** 33227/260001; SUN080709-US-NP
23. **Patent Application/Serial No.:** 11/277,764
- Title:** CONFIGURABLE MULTI-CORE
PROCESSOR IMPLEMENTING
VIRTUAL PROCESSORS
- Filed:** 3/29/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021731/0700
- Reference No:** 33227/261001; SUN080651-US-NP-4

24. **Patent Application/Serial No.:** 60/730,550
Title: CHECKPOINTING STATUS FLAGS
FOR ATOMIC TRACES
Filed: 10/26/2005
Applicant: Sun Microsystems, Inc.
Reference No: 33227/262001; SUN080660-US-PSP
25. **Patent Application/Serial No.:** 60/730,810
Title: ALLOCATION AND DEALLOCATION
OF SHADOW REGISTERS USED BY
ATOMIC TRACES
Filed: 10/27/2005
Applicant: Sun Microsystems, Inc.
Reference No: 33227/263001; SUN080661-US-PSP
26. **Patent Application/Serial No.:** 60/731,962
Title: DETERMINING THE HIGHEST
PRIORITY ABORT TRIGGER IN AN
ATOMIC TRACE
Filed: 10/31/2005
Applicant: Sun Microsystems, Inc.
Reference No: 33227/264001; SUN080691-US-PSP

27. **Patent Application/Serial No.:** 60/732,438
- Title:** ZERO-CYCLE EXECUTION OF
CLEAR OPERATION AND
AUTOMATIC REGISTER FREE
- Filed:** 11/1/2005
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/265001; SUN080669-US-PSP
28. **Patent Application/Serial No.:** 60/832,822
- Title:** MICROPROCESSOR WITH
COHERENT CACHES FOR BASIC
BLOCKS AND TRACES
- Filed:** 7/23/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/268001; SUN080753-US-PSP
29. **Patent Application/Serial No.:** 60/863,125
- Title:** METHOD FOR EARLY
DEALLOCATION OF PHYSICAL
REGISTERS WHEN SHADOW
REGISTERS ARE USED
- Filed:** 10/26/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/266001; SUN080683-US-PSP

- 30. Patent Application/Serial No.:** 60/832,848
- Title:** MICROPROCESSOR WITH CACHES
FOR INSTRUCTIONS, BASIC
BLOCKS, AND TRACES
- Filed:** 7/23/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/267001; SUN080752-US-PSP
- 31. Patent Application/Serial No.:** 60/862,609
- Title:** EXCEPTION HANDLING FOR
ATOMIC TRACES
- Filed:** 10/24/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/269001; SUN080693-US-PSP
- 32. Patent Application/Serial No.:** 60/866,205
- Title:** PROCESSOR WITH OPTIMIZED
OPERATION SEQUENCES FOR
BASIC BLOCK AND MULTI-BLOCK
TRACE CACHES
- Filed:** 11/16/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/270001; SUN080694-US-PSP

33. **Patent Application/Serial No.:** 60/866,203
Title: PROCESSOR WITH BASIC BLOCK
AND MULTI-BLOCK TRACE
CACHES
Filed: 11/16/2006
Applicant: Sun Microsystems, Inc.
Reference No: 33227/271001; SUN080695-US-PSP
34. **Patent Application/Serial No.:** 11/553,453
Title: CHECKPOINTING FLAGS DURING
ATOMIC TRACE RENAMING
Filed: 10/26/2006
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 018887/0247
Reference No: 33227/272001; SUN080660-US-NP-1
35. **Patent Application/Serial No.:** 11/553,458
Title: FLAG RESTORATION FROM
CHECKPOINTS FOR ABORTS OF
ATOMIC TRACES
Filed: 10/26/2006
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 018887/0247
Reference No: 33227/273001; SUN080660-US-NP-3

36. **Patent Application/Serial No.:** 11/553,455
Title: CHECKPOINTING FLAGS ON-DEMAND FOR ATOMIC TRACES
Filed: 10/26/2006
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 021731/0700
Reference No: 33227/274001; SUN080660-US-NP-2
37. **Patent Application/Serial No.:** 60/736,632
Title: POWER CONSERVATION VIA DRAM ACCESS REDUCTION
Filed: 11/15/2005
Applicant: Sun Microsystems, Inc.
Reference No: 33227/275001; SUN080670-US-PSP
38. **Patent Application/Serial No.:** 60/736,736
Title: SMALL AND POWER-EFFICIENT CACHE THAT CAN PROVIDE DATA FOR BACKGROUND DMA DEVICES WHILE THE PROCESSOR IS IN A LOW-POWER STATE
Filed: 11/15/2005
Applicant: Sun Microsystems, Inc.
Reference No: 33227/276001; SUN080674-US-PSP

- 39. Patent Application/Serial No.:** 60/761,220
- Title:** POWER CONSERVATION VIA DRAM ACCESS REDUCTION
- Filed:** 1/23/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/277001; SUN080671-US-PSP
-
- 40. Patent Application/Serial No.:** 60/761,925
- Title:** SMALL AND POWER-EFFICIENT CACHE THAT CAN PROVIDE DATA FOR BACKGROUND DMA DEVICES WHILE THE PROCESSOR IS IN A LOW-POWER STATE
- Filed:** 1/25/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/278001; SUN080679-US-PSP
-
- 41. Patent Application/Serial No.:** 11/351,070
- Title:** POWER CONSERVATION VIA DRAM ACCESS REDUCTION
- Filed:** 2/9/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021171/0578
- Reference No:** 33227/279001; SUN080670-US-NP

42. **Patent Application/Serial No.:** 11/559,133
Title: POWER CONSERVATION VIA DRAM ACCESS REDUCTION
Filed: 11/13/2006
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/279002; SUN080670-US-CNT-1
43. **Patent Application/Serial No.:** 11/559,192
Title: POWER CONSERVATION VIA DRAM ACCESS
Filed: 11/13/2006
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 019355/0223
Reference No: 33227/279003; SUN080670-US-CIP
44. **Patent Application/Serial No.:** 12/030,846
Title: TRACE BASED DEALLOCATION OF ENTRIES IN A VERSIONING CACHE CIRCUIT
Filed: 2/13/2008
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/282002; SUN080742-US-CIP-8

45. **Patent Application/Serial No.:** 12/030,851
Title: MEMORY ORDERING QUEUE /
VERSIONING CACHE CIRCUIT
Filed: 2/13/2008
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/282003; SUN080742-US-CIP-7
46. **Patent Application/Serial No.:** 12/030,852
Title: TRACE BASED ROLLBACK OF A
SPECULATIVELY UPDATED CACHE
Filed: 2/13/2008
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/282004; SUN080742-US-CIP-9
47. **Patent Application/Serial No.:** 12/030,854
Title: MEMORY RECONCILIATION BLOCK
Filed: 2/13/2008
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/282005; SUN080742-US-CIP-6

- 48. Patent Application/Serial No.:** 12/030,857
- Title:** MEMORY ORDERING QUEUE
TIGHTLY COUPLED WITH A
VERSIONING CACHE CIRCUIT
- Filed:** 2/13/2008
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/282006; SUN080742-US-CIP-10
-
- 49. Patent Application/Serial No.:** 60/721,385
- Title:** EFFICIENT TRACE CACHE
MANAGEMENT DURING SELF-
MODIFYING CODE PROCESSING
- Filed:** 9/28/2005
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/283001; SUN080652-US-PSP
-
- 50. Patent Application/Serial No.:** 11/535,971
- Title:** EFFICIENT TRACE CACHE
MANAGEMENT DURING SELF-
MODIFYING CODE PROCESSING
- Filed:** 9/27/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021731/0700
- Reference No:** 33227/283002; SUN080652-US-NP-1

51. **Patent Application/Serial No.:** 11/535,972
- Title:** SELECTIVE TRACE CACHE
INVALIDATION FOR SELF-
MODIFYING CODE VIA MEMORY
AGING
- Filed:** 9/27/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021731/0700
- Reference No:** 33227/283003; SUN080652-US-NP-2
52. **Patent Application/Serial No.:** 11/535,977
- Title:** TRACE CACHE FOR EFFICIENT
SELF-MODIFYING CODE
PROCESSING
- Filed:** 9/27/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021731/0700
- Reference No:** 33227/283004; SUN080652-US-NP-3
53. **Patent Application/Serial No.:** 11/781,949
- Title:** METHOD AND SYSTEM FOR
PROMOTING TRACES IN AN
INSTRUCTION PROCESSING
CIRCUIT
- Filed:** 7/24/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021731/0700
- Reference No:** 33227/283005; SUN080752

- 54. Patent Application/Serial No.:** 11/782,140
- Title:** METHOD AND SYSTEM FOR PROMOTING TRACES IN AN INSTRUCTION PROCESSING CIRCUIT
- Filed:** 7/24/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021731/0700
- Reference No:** 33227/283006; SUN080752-US-CIP-2
- 55. Patent Application/Serial No.:** 11/782,163
- Title:** MICROPROCESSOR WITH COHERENT CACHES FOR BASIC BLOCKS AND TRACES
- Filed:** 7/24/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/283007; SUN080753-US-CIP-1
- 56. Patent Application/Serial No.:** 11/781,950
- Title:** TRACE UNIT WITH A DECODER, A BASIC-BLOCK CACHE, AND A MULTI-BLOCK CACHE
- Filed:** 7/24/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/283008; SUN080744-US-CIP-1

57. **Patent Application/Serial No.:** 11/880,862
- Title:** TRACE UNIT WITH A DECODER, A BASIC-BLOCK CACHE, A MULTI-BLOCK CACHE, AND SEQUENCER
- Filed:** 7/23/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/283009; SUN080745-US-CIP-2
58. **Patent Application/Serial No.:** 11/781,937
- Title:** TRACE UNIT WITH A DECODER, A BASIC-BLOCK BUILDER, AND A MULTI-BLOCK BUILDER
- Filed:** 7/23/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/285001; SUN080742-US-CIP-0
59. **Patent Application/Serial No.:** 11/923,638
- Title:** GRACEFUL DEGRADATION IN A TRACE-BASED PROCESSOR
- Filed:** 10/24/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/285002; SUN080742-US-CIP-1

60. **Patent Application/Serial No.:** 11/923,640
Title: ABORT PRIORITIZATION IN A TRACE-BASED PROCESSOR
Filed: 10/24/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/285003; SUN080742-US-CIP-2
61. **Patent Application/Serial No.:** 11/941,900
Title: FLAG OPTIMIZATION OF A TRACE
Filed: 11/16/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/285004; SUN080742-US-CIP-3
62. **Patent Application/Serial No.:** 11/941,908
Title: EMIT VECTOR OPTIMIZATION OF A TRACE
Filed: 11/16/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/285005; SUN080742-US-CIP-4

- 63. Patent Application/Serial No.:** 11/941,912
Title: SYMBOLIC RENAMING
OPTIMIZATION OF A TRACE
Filed: 11/16/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/285006; SUN080742-US-CIP-5
- 64. Patent Application/Serial No.:** 60/738,225
Title: FUSING OR REGISTER
OPERATIONS, MERGING, STATUS
FLAG UPDATES, BRANCHES
Filed: 11/18/2005
Applicant: Sun Microsystems, Inc.
Reference No: 33227/286001; SUN080680-US-PSP
- 65. Patent Application/Serial No.:** 60/744,592
Title: IMPROVED PREFETCH HARDWARE
EFFICIENCY VIA PREFETCH HINT
INSTRUCTIONS
Filed: 4/10/2006
Applicant: Sun Microsystems, Inc.
Reference No: 33227/287001; SUN080673-US-PSP

- 66. Patent Application/Serial No.:** 60/743,560
- Title:** IMPROVED PREFETCH HARDWARE
EFFICIENCY VIA PREFETCH HINT
INSTRUCTIONS
- Filed:** 3/20/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/288001; SUN080672-US-PSP
-
- 67. Patent Application/Serial No.:** 60/731,969
- Title:** INSTRUCTIONS GIVING HINTS TO
THE HARDWARE PREFETCHER FOR
MORE EFFICIENT PREDICTION OF
PREFETCHES
- Filed:** 10/31/2005
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/289001; SUN080665-US-PSP
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- 68. Patent Application/Serial No.:** 60/757,240
- Title:** EXTENDED RESOURCE CREDIT
SCHEME TO SUPPORT DYNAMIC
REASSIGNMENT OF RESOURCES
AMONG DATA PRODUCERS
- Filed:** 1/9/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/290001; SUN080682-US-PSP

- 69. Patent Application/Serial No.:** 60/731,967
- Title:** SYNCHRONIZED REGISTER
RENAMING BY A MASTER
PROCESSOR AND A COPROCESSOR
- Filed:** 10/31/2005
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/291001; SUN080668-US-PSP
- 70. Patent Application/Serial No.:** 60/749,962
- Title:** SOFTWARE HINT TO SPECIFY THE
PREFETCH BRANCH PREDICTION
TO USE FOR A BRANCH
INSTRUCTION
- Filed:** 12/12/2005
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/292001; SUN080656-US-PSP
- 71. Patent Application/Serial No.:** 60/721,818
- Title:** SOFTWARE HINT TO SPECIFY THE
PREFETCH BRANCH PREDICTION
TO USE FOR A BRANCH
INSTRUCTION
- Filed:** 9/29/2005
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/293001; SUN080653-US-PSP

72. **Patent Application/Serial No.:** 11/777,074
- Title:** MEMORY CELLS WITH POWER SWITCH CIRCUIT FOR IMPROVED LOW VOLTAGE OPERATION
- Filed:** 7/12/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021198/0009
- Reference No:** 33227/348001; SUN080722-US-NP
73. **Patent Application/Serial No.:** 60/746,049
- Title:** REDUCED POWER CACHE MEMORY WITH PER-SECTOR POWER CONTROL
- Filed:** 4/30/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/298001; SUN080710-US-PSP
74. **Patent Application/Serial No.:** 11/740,901
- Title:** REDUCED-POWER MEMORY WITH PER-SECTOR POWER/GROUND CONTROL AND EARLY ADDRESS
- Filed:** 4/26/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 021731/0700
- Reference No:** 33227/298002; SUN080710-US-NP

75. **Patent Application/Serial No.:** 60/747,200
Title: REDUCED POWER CACHE MEMORY
WITH PER-SECTOR POWER
CONTROL
Filed: 5/14/2006
Applicant: Sun Microsystems, Inc.
Reference No: 33227/299001; SUN080685-US-PSP
76. **Patent Application/Serial No.:** 60/747,818
Title: RE-FETCHING CACHE MEMORY
Filed: 5/22/2006
Applicant: Sun Microsystems, Inc.
Reference No: 33227/300001; SUN080688-US-PSP
77. **Patent Application/Serial No.:** 60/803,367
Title: RE-FETCHING CACHE MEMORY
Filed: 5/28/2006
Applicant: Sun Microsystems, Inc.
Reference No: 33227/301001; SUN080689-US-PSP
78. **Patent Application/Serial No.:** 60/804,085
Title: APPLICATION-DIRECTED RANK
COALESCING FOR MEMORY
POWER MANAGEMENT
Filed: 6/6/2006
Applicant: Sun Microsystems, Inc.
Reference No: 33227/302001; SUN080686-US-PSP

79. **Patent Application/Serial No.:** 60/888,011
Title: MEMORY CELLS WITH POWER SWITCH FOR WRITE OPERATIONS
Filed: 2/2/2007
Applicant: Sun Microsystems, Inc.
Reference No: 33227/306001; SUN080720-US-PSP
80. **Patent Application/Serial No.:** 11/932,699
Title: MEMORY CELL WITH INTERNAL POWER SWITCH
Filed: 10/31/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/306002; SUN080720-US-NP
81. **Patent Application/Serial No.:** 11/932,738
Title: METHOD OF OPERATING MEMORY CELL PROVIDING INTERNAL POWER SWITCHING
Filed: 10/31/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/306003; SUN080720-US-NP-1

- 82. Patent Application/Serial No.:** 11/764,159
Title: SYMMETRICAL DIFFERENTIAL AMPLIFIER
Filed: 6/15/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/908001; SUN080742
- 83. Patent Application/Serial No.:** 11/751,949
Title: RE-FETCHING CACHE MEMORY ENABLING LOW-POWER MODES
Filed: 5/22/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 021731/0700
Reference No: 33227/279004; SUN080689-US-NP-1
- 84. Patent Application/Serial No.:** 11/751,973
Title: RE-FETCHING CACHE MEMORY ENABLING ALTERNATIVE OPERATIONAL MODES
Filed: 5/22/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 021731/0700
Reference No: 33227/279005; SUN080688-US-NP-2

- 85. Patent Application/Serial No.:** 11/751,985
Title: RE-FETCHING CACHE MEMORY
HAVING COHERENT RE-FETCHING
Filed: 5/22/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 021731/0700
Reference No: 33227/279006; SUN080688-US-NP-3
- 86. Patent Application/Serial No.:** 12/030,855
Title: VERSIONING CACHE CIRCUIT
PARTICIPATING IN A CACHE
HIERARCHY
Filed: 2/13/2008
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/282007; SUN080742-US-CIP-13
- 87. Patent Application/Serial No.:** 11/555,258
Title: SYNCHRONIZED REGISTER
RENAMING IN A MULTIPROCESSOR
Filed: 10/31/2006
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 012501/0661 (Inventors to Elan)
017089/0214 (Elan to Montalvo)
021731/0700 (Montalvo to Sun)
Reference No: 33227/291002; SUN080668-US-NP-1

- 88. Patent Application/Serial No.:** 11/555,263
- Title:** SYNCHRONIZED REGISTER
RENAMING IN A MULTIPROCESSOR
- Filed:** 10/31/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/291003; SUN080668
- 89. Patent Application/Serial No.:** 60/741,724
- Title:** MICROARCHITECTURE FOR
COMPRESSED STORAGE OF
OPERATIONS WITH EMBEDDED
CONSTANTS
- Filed:** 12/2/2005
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/294001; SUN080681-US-PSP
- 90. Patent Application/Serial No.:** 60/744,010
- Title:** SOFTWARE-ASSISTED THREAD
MIGRATION BETWEEN MULTIPLE
CORES
- Filed:** 3/30/2006
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/295001; SUN080701-US-PSP

91. **Patent Application/Serial No.:** 60/781,772
Title: SOFTWARE-ASSISTED THREAD
MIGRATION BETWEEN MULTIPLE
CORES
Filed: 3/13/2006
Applicant: Sun Microsystems, Inc.
Reference No: 33227/296001; SUN080684-US-PSP
92. **Patent Application/Serial No.:** 60/832,847
Title: LOW POWER SRAM FOR A DUAL
PROCESSOR SYSTEM
Filed: 7/23/2006
Applicant: Sun Microsystems, Inc.
Reference No: 33227/297001; SUN090008-US-PSP
93. **Patent Application/Serial No.:** 60/731,785
Title: MAINTAINING MEMORY
COHERENCY WITHIN A TRACE
CACHE
Filed: 10/31/2005
Applicant: Sun Microsystems, Inc.
Reference No: 33227/284001; SUN080667-US-PSP
94. **Patent Application/Serial No.:** 60/889,547
Title: INSTRUCTION SUB-TYPE
TRACKING UNIT
Filed: 2/13/2007
Applicant: Sun Microsystems, Inc.
Reference No: 33227/282001; SUN080692-US-PSP

95. **Patent Application/Serial No.:** 11/279,882
- Title:** MECHANISMS FOR SOFTWARE (OS)
TO CONTROL THREADS BETWEEN
MULTIPLE CORES
- Filed:** 04/15/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 018161/0814
- Reference No:** 33227/296002; SUN080684-US-NP-1
96. **Patent Application/Serial No.:** 11/279,883
- Title:** OBJECTIVE-DIRECTED
MECHANISMS FOR SOFTWARE (OS)
TO CONTROL THREAD MIGRATION
- Filed:** 04/15/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 018161/0814
- Reference No:** 33227/296003; SUN080684-US-NP-2
97. **Patent Application/Serial No.:** 11/566,206
- Patent No.:** 7,389,408
- Title:** MICROARCHITECTURE FOR
COMPACT STORAGE OF EMBEDDED
CONSTANTS
- Filed:** 12/01/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020925/0679
- Reference No:** 33227/294002; SUN080681-US-NP

98. Patent Application/Serial No.: 11/782,180

Title: TRACE VERIFICATION SYSTEM
AND METHOD FOR AN
INSTRUCTION PROCESSING
CIRCUIT

Filed: 07/24/2007

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 020957/0434

Reference No: 33227/283014; SUN080652-US-CIP-1

99. Patent Application/Serial No.: 11/782,238

Title: METHOD AND SYSTEM FOR
UTILIZING A COMMON STRUCTURE
FOR TRACE VERIFICATION AND
MAINTAINING COHERENCY IN AN
INSTRUCTION PROCESSING
CIRCUIT

Filed: 07/24/2007

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 020957/0434

Reference No: 33227/283015; SUN080652-US-CIP-2

100. Patent Application/Serial No.: 11/880,861

Title: TRACE UNIT WITH A TRACE
BUILDER

Filed: 07/23/2007

Applicant: Sun Microsystems, Inc.

Reel/Frame No.: 020957/0434

Reference No: 33227/283013; SUN080652-US-CIP-3

101. Patent Application/Serial No.: 11/880,859
Title: CONCURRENT VS LOW POWER
BRANCH PREDICTION
Filed: 07/23/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/283011; SUN080750-US-CIP-1

102. Patent Application/Serial No.: 11/880,863
Title: TRACE UNIT WITH AN OP PATH
FROM A DECODER (BYPASS
MODE) AND FROM A BASIC-
BLOCK BUILDER
Filed: 07/23/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/283010; SUN080746-US-CIP-1

103. Patent Application/Serial No.: 12/030,865
Title: TRACE-BASED STORE
OPERATION BUFFER
Filed: 02/13/2008
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/282011; SUN080742-US-CIP-14

- 104. Patent Application/Serial No.:** 12/030,862
- Title:** CHECKING FOR A MEMORY ORDERING VIOLATION AFTER A SPECULATIVE CACHE WRITE
- Filed:** 02/13/2008
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/282010; SUN080742-US-CIP-11
-
- 105. Patent Application/Serial No.:** 12/030,859
- Title:** ROLLING BACK A SPECULATIVE UPDATE OF A NON-MODIFIABLE CACHE LINE
- Filed:** 02/13/2008
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/282009; SUN080742-US-CIP-12
-
- 106. Patent Application/Serial No.:** 12/030,858
- Title:** CACHE ROLLBACK ACCELERATION VIA A BANK BASED VERSIONING CACHE CIRCUIT
- Filed:** 02/13/2008
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/282008; SUN080742-US-CIP-16

107. **Patent Application/Serial No.:** 11/941,895
- Title:** METHOD AND SYSTEM FOR
 PROMOTING TRACES IN AN
 INSTRUCTION PROCESSING
 CIRCUIT
- Filed:** 11/16/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/271003; SUN080652-US-DIV-1
-
108. **Patent Application/Serial No.:** 11/941,883
- Title:** METHOD AND SYSTEM FOR
 PROMOTING TRACES IN AN
 INSTRUCTION PROCESSING
 CIRCUIT
- Filed:** 11/16/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/271002; SUN080652-US-CIP-4
-
109. **Patent Application/Serial No.:** 11/880,875
- Title:** INSTRUCTION CACHE, DECODER
 CIRCUIT, BASIC BLOCK CACHE
 CIRCUIT AND MULTI-BLOCK
 CACHE CIRCUIT
- Filed:** 07/23/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/285008; SUN080751-US-CIP-1

110. **Patent Application/Serial No.:** 11/880,864
- Title:** FRONT END PROCESSOR CORE
 SUPPORTING MULTIPLE BACK
 END EXECUTION UNITS
 SHARING A BASIC BLOCK
 BUILDER
- Filed:** 07/23/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/285007; SUN080749-US-CIP-1
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111. **Patent Application/Serial No.:** 11/933,267
- Title:** VIRTUAL CORE MANAGEMENT
- Filed:** 10/31/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/259005; SUN080835-US-DIV-2
-
112. **Patent Application/Serial No.:** 11/933,297
- Title:** VIRTUAL CORE MANAGEMENT
- Filed:** 10/31/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/259006; SUN080835-US-DIV-3

113. **Patent Application/Serial No.:** 11/933,319
 Title: VIRTUAL CORE MANAGEMENT
 Filed: 10/31/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020957/0434
 Reference No: 33227/259007; SUN080835-US-DIV-4
114. **Patent Application/Serial No.:** 11/933,333
 Title: VIRTUAL CORE MANAGEMENT
 Filed: 10/31/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020957/0434
 Reference No: 33227/259008; SUN080835-US-DIV-5
115. **Patent Application/Serial No.:** 11/933,349
 Title: VIRTUAL CORE MANAGEMENT
 Filed: 10/31/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020957/0434
 Reference No: 33227/259009; SUN080835-US-DIV-6

116. **Patent Application/Serial No.:** 11/933,199
 Title: VIRTUAL CORE MANAGEMENT
 Filed: 10/31/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020957/0434
 Reference No: 33227/259004; SUN080835-US-DIV-1
117. **Patent Application/Serial No.:** 11/932,555
 Title: MEMORY DEVICE WITH SPLIT
 POWER SWITCH
 Filed: 10/31/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 021171/0578
 Reference No: 33227/349002; SUN080719-US-NP
118. **Patent Application/Serial No.:** 60/888,006
 Title: SPLIT POWER SWITCH FOR
 MEMORY CELLS
 Filed: 02/02/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 021731/0700
 Reference No: 33227/349001; SUN080719-US-PSP

119. **Patent Application/Serial No.:** 11/932,643
 Title: METHOD OF SELECTIVELY
 POWERING MEMORY DEVICE
 Filed: 10/31/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 021171/0578
 Reference No: 33227/349003; SUN080719-US-NP-1
120. **Patent Application/Serial No.:** 11/932,967
 Title: ELECTRIC POWER FOR READ
 AND WRITE MARGINS
 Filed: 10/31/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 021171/0578
 Reference No: 33227/349004; SUN080721-US-NP
121. **Patent Application/Serial No.:** 11/938,196
 Title: ELECTRIC POWER FOR READ
 MARGINS
 Filed: 11/09/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 021171/0578
 Reference No: 33227/349005; SUN080721-US-CNT-1

122.	Patent Application/Serial No.:	11/555,253
	Title:	DYNAMIC RESOURCE ALLOCATION
	Filed:	10/31/2006
	Applicant:	Sun Microsystems, Inc.
	Reel/Frame No.:	020957/0434
	Reference No:	33227/225001; SUN080668

123.	Patent Application/Serial No.: 11/555,181
	Title: SELECTIVE REGISTER FILE DISABLEMENT
	Filed: 10/31/2006
	Applicant: Sun Microsystems, Inc.
	Reel/Frame No.: 020957/0434
	Reference No: 33227/223001; SUN080662

124.	Patent Application/Serial No.:	11/740,892
	Patent No.:	7,443,759
	Title:	REDUCED-POWER MEMORY WITH PER-SECTOR GROUND CONTROL
	Filed:	04/26/2007
	Applicant:	Sun Microsystems, Inc.
	Reel/Frame No.:	021731/0700
	Reference No:	33227/222001; SUN080685

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| 125. | Patent Application/Serial No.: 60/731,784 | Title: EXTEND CACHE OPERATIONS TO PROVIDE CONTROL OVER WHICH LEVELS OF THE HIERARCHY THEY APPLY TO |
| | Filed: 10/31/2005 | |
| | Applicant: Sun Microsystems, Inc. | |
| | Reference No: 33227/304001; SUN080666-US-PSP | |
| 126. | Patent Application/Serial No.: 11/543,549 | Title: CACHE INSTRUCTIONS WITH HIERARCHY CONTROL |
| | Filed: 10/04/2006 | |
| | Applicant: Sun Microsystems, Inc. | |
| | Reel/Frame No.: 020957/0434 | |
| | Reference No: 33227/304002; SUN080666-US-NP-2 | |
| 127. | Patent Application/Serial No.: 11/543,598 | Title: CACHE OPERATIONS WITH HIERARCHY CONTROL |
| | Filed: 10/04/2006 | |
| | Applicant: Sun Microsystems, Inc. | |
| | Reel/Frame No.: 020957/0434 | |
| | Reference No: 33227/304003; SUN080666-US-NP-1 | |
| 128. | Patent Application/Serial No.: 11/737,103 | Title: NAND/NOR REGISTERS |
| | Filed: 04/18/2007 | |
| | Applicant: Sun Microsystems, Inc. | |
| | Reel/Frame No.: 020957/0434 | |
| | Reference No: 33227/305001; SUN080820-UP-US | |

129. **Patent Application/Serial No.:** 60/729,558
 Title: TIMED PAUSE INSTRUCTION
 FOR MORE POWER EFFICIENT
 HANDLING OF MICRODELAYS IN
 SOFTWARE
 Filed: 10/24/2005
 Applicant: Sun Microsystems, Inc.
 Reference No: 33227/310001; SUN080659-US-PSP
130. **Patent Application/Serial No.:** 11/552,329
 Title: TIMED PAUSE INSTRUCTIONS
 Filed: 10/24/2006
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020975/0434
 Reference No: 33227/310002; SUN080659-US-NP
131. **Patent Application/Serial No.:** 11/616,093
 Title: TIMED PAUSE INSTRUCTION SET
 Filed: 12/26/2006
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020975/0434
 Reference No: 33227/310003; SUN080659-US-CNT-1

132. **Patent Application/Serial No.:** 11/759,218
 Title: ASSOCIATE STRUCTURE RANK
 COUNTERS
 Filed: 6/6/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 017518/0150
 Reference No: 33227/279007; SUN080686-US-NP-3
133. **Patent Application/Serial No.:** 11/880,882
 Title: TRACE UNIT
 Filed: 7/23/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020378/0239
 Reference No: 33227/283012; SUN080754-US-CIP-1
134. **Patent Application/Serial No.:** 11/880,877
 Title: TRACE VERIFICATION SYSTEM
 AND METHOD FOR AN
 INSTRUCTION PROCESSING
 CIRCUIT
 Filed: 7/23/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020378/0239
 Reference No: 33227/283016

135. **Patent Application/Serial No.:** 11/591,024
- Title:** MAINTAINING MEMORY
 COHERENCY WITH A TRACE
 CACHE
- Filed:** 10/31/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020957/0434
- Reference No:** 33227/284002; SUN080667-US-NP
-
136. **Patent Application/Serial No.:** 11/561,270
- Title:** FUSING OPERATIONS OF A
 TARGET ARCHITECTURE
 OPERATION SET
- Filed:** 11/17/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 018887/0263
- Reference No:** 33227/353001; SUN080680-US-NP-1
-
137. **Patent Application/Serial No.:** 11/561,274
- Title:** TRACE OPTIMIZATION VIA
 FUSING OPERATIONS OF
 TARGET ARCHITECTURE
 OPERATION SET
- Filed:** 11/17/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 018887/0263
- Reference No:** 33227/354001; SUN080680-US-NP-2

138. **Patent Application/Serial No.:** 11/561,284
- Title:** FUSING ASSERT OPERATIONS OF
 A TARGET ARCHITECTURE
 OPERATION SET
- Filed:** 11/17/2006
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 018887/0263
- Reference No:** 33227/355001; SUN080680-US-NP-4
-
139. **Patent Application/Serial No.:** 11/759,217
- Title:** PHYSICAL MEMORY
 ALLOCATING ACCORDING TO
 RANKS
- Filed:** 6/6/2007
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/327001; SUN080686-US-NP-2

140.	Patent Application/Serial No.:	11/759,216
	Title:	SOFTWARE DIRECTED RANK COALESCING
	Filed:	6/6/2007
	Applicant:	Sun Microsystems, Inc.
	Reel/Frame No.:	020669/0050
	Reference No:	33227/328001: SUN080686-US-NP-1

141.	Patent Application/Serial No.:	09/680,672
	Patent No.:	6,502,202
	Title:	SELF-ADJUSTING MULTI-SPEED PIPELINE
	Filed:	10/6/2000
	Applicant:	Sun Microsystems, Inc.
	Reel/Frame No.:	011192/0610
	Reference No:	33227/329001; SUN080800-US-NP

142. **Patent Application/Serial No.:** 09/661,137
 Title: REPAIRABLE DYNAMIC PROGRAMMABLE LOGIC ARRAY
 Filed: 9/13/2000
 Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 011222/0881
 Reference No: 33227/330001: SUN080799-US-NP

143. **Patent Application/Serial No.:** 09/640,486
 Title: CONFIGURABLE DYNAMIC
 PROGRAMMABLE LOGIC ARRAY
 Filed: 8/16/2000
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 011150/0664
 Reference No: 33227/331001; SUN080798-US-NP
144. **Patent Application/Serial No.:** 10/071,966
 Patent No.: 6,614,258
 Title: FIELD-PROGRAMMABLE
 DYNAMIC LOGIC ARRAY
 Filed: 2/5/2002
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 012596/0994
 Reference No: 33227/332001; SUN080797-US-CIP
145. **Patent Application/Serial No.:** 09/609,490
 Patent No.: 6,348,812
 Title: DYNAMIC PROGRAMMABLE
 LOGIC ARRAY THAT CAN BE
 REPROGRAMMED AND A
 METHOD OF USE
 Filed: 7/5/2000
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 010915/0302
 Reference No: 33227/333001; SUN080796-US-NP

- 146. Patent Application/Serial No.:** 10/054,471
Patent No.: 6,894,534
Title: DYNAMIC PRGOFRAMMABLE LOGIC ARRAY THAT CAN BE REPROGRAMMED AND A METHOD OF USE
Filed: 1/18/2002
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 012552/0065
Reference No: 33227/334001; SUN080795-US-CIP
- 147. Patent Application/Serial No.:** 09/566,901
Patent No.: 6,542,958
Title: SOFTWARE CONTROL OF DRAM REFRESH TO REDUCE POWER CONSUMPTION IN A DATA PROCESSING SYSTEM
Filed: 5/10/2000
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 010789/0532
Reference No: 33227/335001; SUN080794-US-NP
- 148. Patent Application/Serial No.:** 11/932,311
Title: DYNAMIC VOLTAGE SCALING FOR SELF-TIMED OR RACING PATHS
Filed: 10/31/2007
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 020957/0434
Reference No: 33227/336001; SUN080757-US-NP

149. Patent Application/Serial No.: 11/435,528
Title: SYSTEM AND METHOD FOR
PROCESSING INSTRUCTIONS IN
A COMPUTER SYSTEM
Filed: 5/17/2006
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 017910/0029
Reference No: 33227/337001; SUN080756-US-NP

150. Patent Application/Serial No.: 11/408,784
Title: REDUCING POWER
CONSUMPTION FOR
PROCESSING OF COMMON
VALUES IN MICROPROCESSOR
REGISTERS AND EXECUTION
UNITS
Filed: 4/21/2006
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 017801/0323
Reference No: 33227/338001; SUN080755-US-NP

151. Patent Application/Serial No.: 10/045,127
Patent No.: 6,848,025
Title: METHOD AND SYSTEM FOR
PROGRAMMABLE
REPLACEMENT MECHANISM
FOR CACHING DEVICES
Filed: 10/26/2001
Applicant: Sun Microsystems, Inc.
Reel/Frame No.: 012501/0661 (Inventors to Elan)
017089/0214 (Elan to Montalvo)
021731/0700 (Montalvo to Sun)
Reference No: 33227/339001; SUN080802-US-NP

152. **Patent Application/Serial No.:** 10/004,338
 Patent No.: 6,957,323
 Title: OPERAND FILE USING
 POINTERS AND REFERENCES
 COUNTERS AND A METHOD OF
 USE
 Filed: 11/14/2001
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 012356/0083 (Inventors to Elan)
 017089/0214 (Elan to Montalvo)
 021731/0700 (Montalvo to Sun)
 Reference No: 33227/340001; SUN080801-US-NP
153. **Patent Application/Serial No.:** 11/738,287
 Title: DYNAMIC DUAL OUTPUT
 LATCH
 Filed: 4/20/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020957/0434
 Reference No: 33227/341001; SUN080821-US-NP
154. **Patent Application/Serial No.:** 11/490,778
 Title: MECHANISM TO PROVIDE
 SOFTWARE ACCESS TO
 PHYSICAL MEMORY IN A
 PROCESSING SYSTEM
 Filed: 7/21/2006
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020421/0790
 Reference No: 33227/342001; SUN080833-US-NP

155. **Patent Application/Serial No.:** 11/963,603
 Title: MICROPROCESSOR INCLUDING
 A DISPLAY INTERFACE IN THE
 MICROPROCESSOR
 Filed: 12/21/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020957/0434
 Reference No: 33227/343001; SUN080827-US-NP
156. **Patent Application/Serial No.:** 11/963,579
 Title: MICROPROCESSOR INCLUDING
 A DISPLAY INTERFACE IN THE
 MICROPROCESSOR
 Filed: 12/21/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020957/0434
 Reference No: 33227/344001; SUN080826-US-NP
157. **Patent Application/Serial No.:** 11/745,370
 Title: ENHANCED SIGNALING
 SENSITIVITY USING
 MULTIPLE REFERENCES
 Filed: 5/7/2007
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 020957/0434
 Reference No: 33227/345001; SUN080834-US-NP

158. **Patent Application/Serial No.:** 11/416,872
 Title: SYSTEM AND METHOD FOR
 OPTIMIZING A MEMORY
 CONTROLLER
 Filed: 5/2/2006
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 017865/0651
 Reference No: 33227/346001; SUN080831-US-NP
159. **Patent Application/Serial No.:** 11/450,103
 Title: SYSTEM AND MEHTOD FOR
 CONSERVING POWER
 Filed: 6/9/2006
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 17988/0735
 Reference No: 33227/347001; SUN080832-US-NP
160. **Patent Application/Serial No.:** 60/721,817
 Title: SOFTWARE HINT TO SPECIFY
 PREFERRED LOAD VALUE
 PREDICTION MECHANISM
 Filed: 9/29/2005
 Applicant: Sun Microsystems, Inc.
 Reference No: 33227/351001; SUN080657-US-PSP

161. **Patent Application/Serial No.:** 11/351,059
 Title: SOFTWARE HINT TO SPECIFY
 PREFERRED LOAD VALUE
 PREDICTION MECHANISM
 Filed: 2/9/2006
 Applicant: Sun Microsystems, Inc.
 Reel/Frame No.: 017518/0142
 Reference No: 33227/351003; SUN080657-US-NP
162. **Patent Application/Serial No.:** 60/762,817
 Title: SOFTWARE HINT OT SPECIFY
 PREFERRED LOAD VALUE
 PREDICTION MECHANISM
 Filed: 1/27/2006
 Applicant: Sun Microsystems, Inc.
 Reference No: 33227/351002; SUN080658-US-PSP
163. **Patent Application/Serial No.:** 60/806,786
 Title: EXECUTION MODES APPLIED
 TO INSTRUCTION SEQUENCES
 Filed: 7/9/2006
 Applicant: Sun Microsystems, Inc.
 Reference No: 33227/352001; SUN080687-US-PSP

164. **Patent Application/Serial No.:** 11/774,581
- Title:** EXECUTING INSTRUCTION SEQUENCES ACCORDING TO EXECUTION MODE
- Filed:** 7/7/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020750/0401
- Reference No:** 33227/352002; SUN080687-US-NP-1
-
165. **Patent Application/Serial No.:** 11/774,583
- Title:** CONTROLLING OPERATION OF A PROCESSOR ACCORDING TO EXECUTION MODE OF AN INSTRUCTION SEQUENCE
- Filed:** 7/7/2007
- Applicant:** Sun Microsystems, Inc.
- Reel/Frame No.:** 020750/0401
- Reference No:** 33227/352003; SUN080687-US-NP-2
-
166. **Patent Application/Serial No.:** 11/880,860
- Title:** MICROPROCESSOR WITH COHERENT CACHES FOR BASIC BLOCKS AND TRACES
- Filed:** 7/23/2007
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/356001

- 167. Patent Application/Serial No.:** 11/781,942
- Title:** A TRACE UNIT WITH A
DECODER, A BASIC-BLOCK
CACHE, A MULTI-BLOCK
CACHE, AND SEQUENCER
- Filed:** 7/23/2007
- Applicant:** Sun Microsystems, Inc.
- Reference No:** 33227/001001;SUN080745-US-CIP1
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- 168. Patent Application/Serial No.:** 12/030,856
- Title:** DELAYED STORE BUFFER
ENTRIES TAGGED WITH TRACE
IDS
- Filed:** 2/13/2008
- Applicant:** Sun Microsystems, Inc.
- Reference No:** SUN080742-US-CIP15